

**MENDMENT TO THE CLAIMS:**

The following listing of claims will replace all prior versions of claims in the application:

## Claims 1 – 8 (Canceled)

- 1           9.       (New) A method for automatic recognition of available simulation  
 2 configurations of integrated circuits under design comprising at least two  
 3 components connected to one another, directly or indirectly, and for functional  
 4 verification of said circuits through a simulation test, characterized in that it  
 5 comprises:
- 6           - acquiring a simulation configuration by a first server manager (14),  
 7               associated with a simulator, during the initialization of a simulator  
 8               program, during which all constructors of HLL (C++) instances of  
 9               components present in a current global simulation model are called,
  - 10          - registering the presence of each of said constructors-by transmitting  
 11             parameters of each said constructors (label, type, HDL path, etc.) to the  
 12             server manager, constructing an instance table of the components by said  
 13             server manager (14),
  - 14          - sending a request by a second client manager (11), to the server manager  
 15             (14) to determine whether the components expected in a configuration by  
 16             the client manager (11) are present and determining their positions  
 17             (indicated by the labels) and their types,
  - 18          - sending a response by the server manager (14) to the client manager (11),  
 19             after a consultation of the instance table of the components, said response  
 20             containing the instances of the components present and/or an error  
 21             notification in case of the absence of one or more expected components,
  - 22          - storing the response in at least one configuration model storage table (12)  
 23             by the client manager,
  - 24          - comparing the response by the client manager (11) with the requirements  
 25             of the simulation test, and
  - 26          - disabling, activating and/or modifying certain parts of the simulation test  
 27             by the client manager (11) in order to adapt the simulation test to the  
 28             configuration, or the signaling of an error if the simulation test cannot be  
 29             adapted to the configuration.

1           10.   (New) A method for the automatic recognition of configurations  
2 according to claim 9, comprising generating the simulation configurations from  
3 configuration generation data (MGHLL, MGHDLD) prior to the utilization of the  
4 method.

1           11.   (New) A method for the automatic recognition of configurations  
2 according to claim 10, wherein the generation of the simulation configurations is  
3 controlled by an operator.

1           12.   (New) A method for the automatic recognition of configurations  
2 according to claim 10, wherein the generation of the simulation configurations is  
3 controlled by an automatic configuration generator (17).

1           13.   (New) A method for the automatic recognition of configurations  
2 according to claim 9, characterized in that the step for sending a request is followed  
3 by a step for the translation of said request, by a program interface (API CONF), into  
4 a language understandable by the first server manager (14), and in that the step for  
5 sending a response is followed by a step for the translation of said response, by the  
6 program interface (API CONF), into a language understandable by the second client  
7 manager (11).

1           14.   (New) A method for the automatic recognition of configurations  
2 according to claim 10, characterized in that the step for sending a request is followed  
3 by a step for the translation of said request, by a program interface (API CONF), into  
4 a language understandable by the first server manager (14), and in that the step for  
5 sending a response is followed by a step for the translation of said response, by the  
6 program interface (API CONF), into a language understandable by the second client  
7 manager (11).

1           15.   (New) A method for the automatic recognition of configurations  
2 according to claim 11, characterized in that the step for sending a request is followed

3 by a step for the translation of said request, by a program interface (API CONF), into  
 4 a language understandable by the first server manager (14), and in that the step for  
 5 sending a response is followed by a step for the translation of said response, by the  
 6 program interface (API CONF), into a language understandable by the second client  
 7 manager (11).

1 16. (New) A method for the automatic recognition of configurations  
 2 according to claim 12, characterized in that the step for sending a request is followed  
 3 by a step for the translation of said request, by a program interface (API CONF), into  
 4 a language understandable by the first server manager (14), and in that the step for  
 5 sending a response is followed by a step for the translation of said response, by the  
 6 program interface (API CONF), into a language understandable by the second client  
 7 manager (11).

1 17. (New) A method for the automatic recognition of configurations  
 2 according to claim 9, characterized in that it operates in a client-server (13, 10)  
 3 architecture, the first client manager (11) being located in the server (10) of the  
 4 client- server architecture and the second server manager (14) is located in the client  
 5 (13) of the client-server architecture.

1 18. (New) A method for the automatic recognition of configurations  
 2 according to claim 10, characterized in that it operates in a client-server (13, 10)  
 3 architecture, the first client manager (11) being located in the server (10) of the  
 4 client- server architecture and the second server manager (14) is located in the client  
 5 (13) of the client-server architecture.

1 19. (New) A method for the automatic recognition of configurations  
 2 according to claim 11, characterized in that it operates in a client-server (13, 10)  
 3 architecture, the first client manager (11) being located in the server (10) of the  
 4 client- server architecture and the second server manager (14) is located in the client  
 5 (13) of the client-server architecture.

1           20.     (New) A method for the automatic recognition of configurations  
2 according to claim 12, characterized in that it operates in a client-server (13, 10)  
3 architecture, the first client manager (11) being located in the server (10) of the  
4 client- server architecture and the second server manager (14) is located in the client  
5 (13) of the client-server architecture.

1           21.     (New) A method for the automatic recognition of configurations  
2 according to claim 13, characterized in that it operates in a client-server (13, 10)  
3 architecture, the first client manager (11) being located in the server (10) of the  
4 client- server architecture and the second server manager (14) is located in the client  
5 (13) of the client-server architecture.

1           22.     (New) A method for the automatic recognition of configurations  
2 according to claim 14, characterized in that it operates in a client-server (13, 10)  
3 architecture, the first client manager (11) being located in the server (10) of the  
4 client- server architecture and the second server manager (14) is located in the client  
5 (13) of the client-server architecture.

1           23.     (New) A method for the automatic recognition of configurations  
2 according to claim 15, characterized in that it operates in a client-server (13, 10)  
3 architecture, the first client manager (11) being located in the server (10) of the  
4 client- server architecture and the second server manager (14) is located in the client  
5 (13) of the client-server architecture.

1           24.     (New) A method for the automatic recognition of configurations  
2 according to claim 16, characterized in that it operates in a client-server (13, 10)  
3 architecture, the first client manager (11) being located in the server (10) of the  
4 client- server architecture and the second server manager (14) is located in the client  
5 (13) of the client-server architecture.

1           25.     (New) A system for automatic recognition of available simulation  
2 configurations of integrated circuits under design comprising a first server manager  
3 (14) having means for formulating and/or analyzing a message, means for filling and  
4 consulting at least one instance table of components (15) present in each  
5 configuration, a second client manager (11) having means for formulating a message  
6 and/or a request, means for analyzing the message, storage means and means for  
7 filling and consulting at least one storage table for storing configuration models (12)  
8 in the storage means.

1           26.     (New) A system to automatically test recognition of configurations  
2 according to claim 17, characterized in that the second manager (11) includes means  
3 for disabling, activating and/or modifying certain parts of the test in order to adapt  
4 the test based on the response.